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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,859	02/18/2005	Isao Karasawa	Q86348	3578
23373 7590 11/17/2009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			THROWER, LARRY W	
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			1791	
			NOTIFICATION DATE	DELIVERY MODE
			11/17/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
Office Action Occurrence	10/524,859	KARASAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	LARRY THROWER	1791				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 23 Se	entember 2009					
	action is non-final.					
		secution as to the merits is				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
ologod in accordance with the practice and in	x parte quayre, 1000 C.D. 11, 10	0.0.210.				
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 3-10</u> is/are pending in the applic	cation.					
4a) Of the above claim(s) <u>5-10</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3 and 4</u> is/are rejected.						
7) Claim(s) is/are objected to.						
· · · · ·						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>23 September 2009</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the o						
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. ☐ Certified copies of the priority documents	s have been received					
2. Certified copies of the priority documents		on No				
	• • • • • • • • • • • • • • • • • • • •					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Response to Amendment

1. The amendment filed September 23, 2009 has been entered. Claim 2 is canceled; claims 5-10 are withdrawn; claims 1 and 3-4 are under examination.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 3-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (APA; paragraph references to US 2005/0263207) in view of Saitoh (US 6,228,153).
- Regarding **claim 1**, the APA discloses a method of introducing a plastic raw material liquid (¶5). The method includes positioning a liquid delivery unit which is actuatable by a single drive shaft for drawing in and discharging fluid by pressing a resilient tube with presser rollers (¶5; fig. 5), discharging flow of the plastic raw material liquid from the liquid delivery unit and introducing the combined plastic raw material liquid into a casting polymerization mold (¶5; fig. 5).
- The APA fails to disclose positioning a plurality of delivery units parallel to each
 other, discharging flows of the liquid at different times from each other from the units,
 and combining the flows of the liquid discharged from the units with each other.

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However, Saitoh discloses a method of introducing a liquid (abstract) which includes positioning a plurality of delivery units, which are actuatable by a single drive shaft (abstract; claim 1), each for intermittently drawing in and discharging a fluid at a constant rate (figs. 4a, 4c, 9a; col. 5, lines 6-20; col. 10, lines 20-53) parallel to each other (figs. 4a, 4c, 9a; col. 5, lines 6-20), discharging flows of the liquid at different times from each other from the liquid delivery units (col. 5, lines 17-20; col. 10, lines 20-53), and combining the flows of the liquid discharged from the liquid delivery units (figs. 4a, 4c, 9a; col. 5, lines 6-20). As taught by Saitoh, this configuration effectively removes air bubbles and stabilizes the liquid (fig. 4c'; col. 10, lines 21-53). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the method of introducing a plastic raw material liquid of the APA with the delivery unit configuration of Saitoh in order to stabilize and remove air bubbles from the liquid, as taught by Saitoh (col. 10, lines 20-53).

- Regarding claim 3, Saitoh discloses an accumulator for changing the volume of a
 fluid depending on the pressure of the fluid disposed in a flow passage for the
 combined plastic raw material liquid (col. 10, lines 40-45; fig. 4c').
- Regarding claim 4, the APA discloses a filter (53) being disposed in a flow passage for the combined plastic raw material liquid (fig. 5; ¶5).

Response to Arguments

4. Applicant's arguments filed May 27, 2009 have been fully considered but they are not persuasive.

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• Applicant first argues that Saitoh "fails to disclose a plurality of delivery units which are actuated by a single dirve shaft and parallel to each other." This argument has been considered but is not persuasive. Saitoh discloses a parallel pump delivery system in figs. 9a and 4c. Saitoh teaches that a parallel delivery unit system keeps the eluent delivery continuous by drawing and sending out the eluent alternately (col. 5, lines 15-20). Saitoh also teaches that parallel delivery units can be equipped with a single shaft to move two parallel delivery units (abstract; col. 6, lines 5-15; claim 1).

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Applicant's remaining arguments are directed to embodiments of Saitoh that are not cited in the rejection and hypothetical claims that Applicant feels could be constructed from Saitoh's disclosure where each feature is claimed independently. These arguments are not persuasive because: i) the rejection is based on alternative embodiments; ii) the hypothetical claims do not exist in Saitoh; and iii) it is irrelevant whether the features could be claimed independent of each other.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LARRY THROWER whose telephone number is 571-270-5517. The examiner can normally be reached on Monday through Friday from 9:30AM-6PM est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina A. Johnson can be reached on 571-272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Larry Thrower/ Examiner, Art Unit 1791

/Christina Johnson/

Supervisory Patent Examiner, Art Unit 1791